

# MR-KLEAN

M-Filter MR-KLEAN rigid resin-bonded filter cartridges are manufactured to the highest standards. They are produced with acrylic fibre of controlled diameter, which are bonded together by a proprietary process using a phenolic resin. Due to the materials used, cartridges have broad chemical compatibility and are suitable for applications with high temperatures and aggressive solvents.

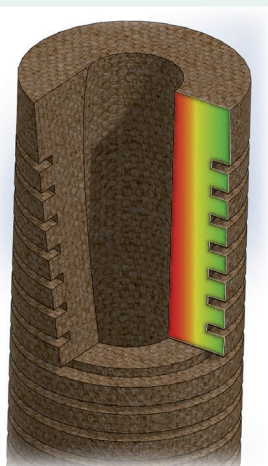
## Reproducible cost effective filtration

MR-KLEAN is manufactured to rigid specifications and subjected to stringent quality controls to ensure consistency in end-user filtration performance.

## Rigid construction for demanding applications

The manufacturing process used results in graded porosity where filtration pores on the outer surface of the cartridge are more open and become progressively smaller towards the core of the cartridge. This gradient density construction enables the cartridge to trap larger particles near its outer surface, while still allowing the smaller particles to permeate nearer the core, increasing capacity and prolonging filter life.

Fibers are impregnated with phenolic resin to create a rigid, self-supporting structure which eliminates the need for centre-supporting core, while providing consistent filtration performance in a cartridge that will not deform under high and varying operating differential pressures.



Picture 1:

Gradient density construction



## APPLICATIONS

- Paint, varnishes and ink for single
- Resins and solvents
- Chemicals
- Process, cooling and waste water
- Oils and lubricants
- Detergents
- Hydraulic fluids and grease
- Organic solvents (alcohols, ketones, ethers,...)
- Hydrocarbons and fuels
- Waxes

## BENEFITS

- Wide chemical compatibility
- Can withstand high differential pressures
- High temperature resistance
- Excellent particle removal efficiency
- High dirt-holding capacity

# MR-KLEAN

## Micron ratings and standard dimensions

MR-Klean cartridges are available in a range from 1 micron to 100 micron nominal in double open end (DOE) configuration.

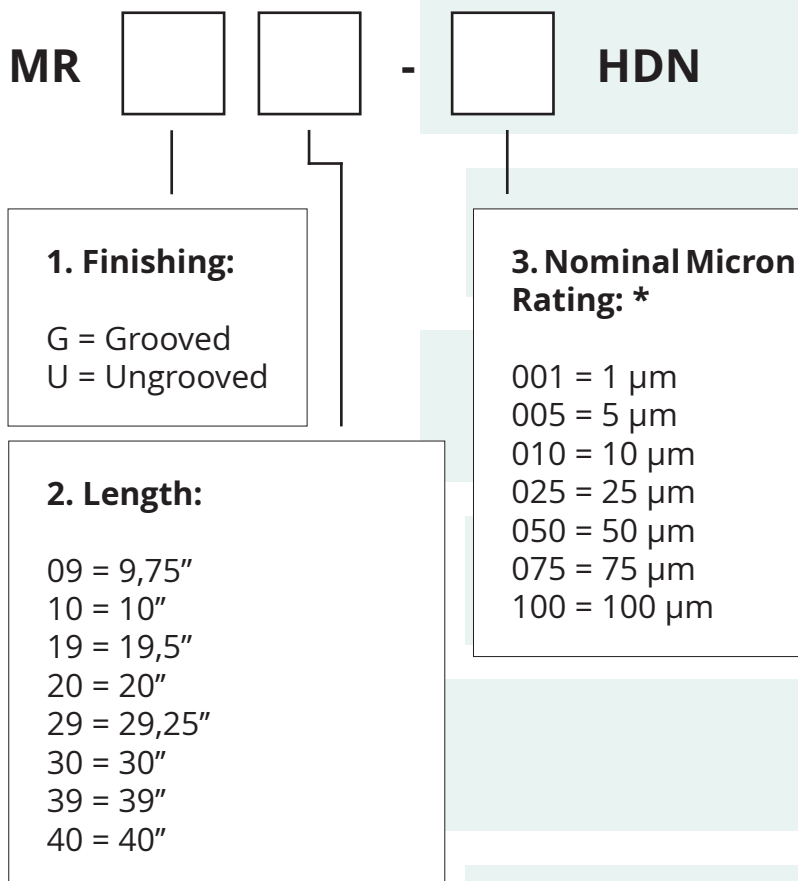
- Inside diameter: 26,5 mm
- Outside diameter: 64 mm
- Cartridge length: 9,75" – 40" (248 mm – 1016 mm) with special lengths available upon request.

## Waste management

MR-Klean filter cartridges contain no metal or plastic cores and can be incinerated, shredded, or crushed after use to reduce overall disposal costs.

## MR-KLEAN ordering guide

**Example:** MRG10 - 001HDN



## OPERATING PARAMETERS

- Maximum operating temperature cartridge : 121 C
- Maximum differential pressure: 470 kPa (4,7 bar).
- Maximum flow rate 38 lpm per 10" (254mm) length. For multiple length filter cartridge, flow should not exceed 112 lpm per cartridge.
- Recommended change-out differential pressure: 240 kPa (2,4 bar)

To ensure optimum usage of cartridges all guidelines should be used as an indicator. For each application, trial should be taken into account. Increasing initial differential pressure will result in higher flow rates, however, cartridge life will be reduced. It is recommended, for maximum cartridge life, that initial differential pressure be held at less than 34 kPa. Select a filter housing with appropriate number of cartridges for required flow and dirt holding capacity.